

**Table 1. 1998 Summary Statistics**

| Item   | Value      | U.S. Rank | Item                          | Value      | U.S. Rank |
|--|------------|-----------|-------------------------------|------------|-----------|
| NERC Region(s)                                     |            | SPP       | <b>Utility</b>                |            |           |
| Net Exporter or Importer                           |            | Exporter  | Capacity (MW)                 | 12,622     | 23        |
| Primary Generating Fuel                            |            | Coal      | Generation (MWh)              | 51,454,036 | 23        |
| Population (as of 7/98)                            | 3,339,478  | 27        | Average Age of Plants (years) |            |           |
| Average Electricity Price (cents/kWh) <sup>a</sup> | 5.43       | 11        | Coal-fired                    | 17         |           |
| Industrial   | 3.65       | 9         | Petroleum-fired               | 33         |           |
| Commercial   | 5.66       | 9         | Gas-fired                     | 30         |           |
| Residential  | 6.57       | 11        | Hydroelectric                 | 33         |           |
| <b>Industry</b>                                    |            |           | <b>Nonutility</b>             |            |           |
| Capacity (MW)                                      | 13,451     | 23        | Capacity (MW)                 | 829        | 24        |
| Generation (MWh)                                   | 56,190,603 | 23        | Share of Capacity (Percent)   | 6.2        | 30        |
| Capacity/person                                    |            |           | Generation (MWh)              | 4,736,567  | 21        |
| (KWe/person)                                       | 4.03       | 10        | Share of Generation (Percent) | 8.4        | 22        |
| Generation/person                                  |            |           |                               |            |           |
| (MWh/person)                                       | 16.83      | 19        |                               |            |           |
| Emissions (Thousand Short Tons)                    |            |           |                               |            |           |
| Sulfur Dioxide                                     | 89         | 30        |                               |            |           |
| Nitrogen Oxide                                     | 162        | 17        |                               |            |           |
| Carbon Dioxide                                     | 49,603     | 18        |                               |            |           |
| Sulfur Dioxide/sq. mile (Tons)                     | 1.29       | 32        |                               |            |           |
| Nitrogen Oxides/sq. mile (Tons)                    | 2.35       | 29        |                               |            |           |
| Carbon Dioxide/sq. mile (Tons)                     | 722.24     | 28        |                               |            |           |

**Table 2. Five Largest Plants, 1998**

| Plant                 | Energy Source <sup>b</sup> | Operating Company             | Net Capability (MW) | Age (Years) |
|-----------------------|----------------------------|-------------------------------|---------------------|-------------|
| 1. Muskogee .....     | Coal                       | Oklahoma Gas & Electric Co    | 1,657               | 42          |
| 2. Northeastern ..... | Coal, Gas                  | Public Service Co of Oklahoma | 1,541               | 37          |
| 3. Seminole .....     | Gas                        | Oklahoma Gas & Electric Co    | 1,522               | 27          |
| 4. Sooner .....       | Coal                       | Oklahoma Gas & Electric Co    | 1,031               | 19          |
| 5. GRDA .....         | Coal                       | Grand River Dam Authority     | 1,010               | 17          |

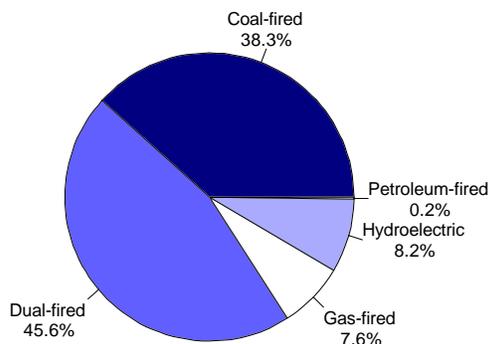
**Table 3. Top Five Utilities Ranked by Retail Sales Revenue Within the State, 1998**  
(Million Dollars)

| Utility                                 | All Sectors | Residential | Commercial | Industrial | Other |
|---|-------------|-------------|------------|------------|-------|
| A. Oklahoma Gas & Electric Co .....     | 1,116       | 501         | 287        | 212        | 115   |
| B. Public Service Co of Oklahoma .....  | 738         | 329         | 236        | 163        | 10    |
| C. Oklahoma Electric Coop, Inc .....    | 42          | 32          | 8          | 1          | *     |
| D. Edmond Electric Department .....     | 36          | 22          | 5          | 6          | 3     |
| E. Northeast Oklahoma El Coop Inc ..... | 32          | 25          | 6          | *          | --    |
| Total .....                             | 1,963       | 910         | 543        | 382        | 129   |
| Percentage of Utility Sales .....       | 75          | 71          | 77         | 79         | 96    |

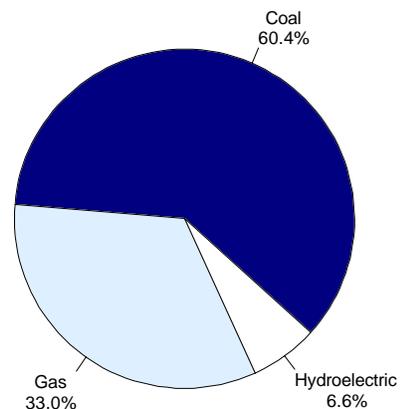
**Table 4. Electric Power Industry Generating Capability by Plant Type, 1988, 1993, and 1998**  
(Megawatts Electric)

| Plant Type             | 1988   | 1993   | 1998   | Annual Growth Rate 1988-1998 (Percent) | Percentage Share 1988 | Percentage Share 1993 | Percentage Share 1998 |
|------------------------|--------|--------|--------|--|-----------------------|-----------------------|-----------------------|
| Total Utility .....    | 12,758 | 12,859 | 12,622 | -0.1                                   | 93.3                  | 94.2                  | 93.8                  |
| Coal-fired .....       | 4,816  | 4,874  | 4,837  | *                                      | 35.2                  | 35.7                  | 36.0                  |
| Petroleum-fired .....  | 30     | 30     | 28     | -0.8                                   | 0.2                   | 0.2                   | 0.2                   |
| Gas-fired .....        | 989    | 706    | 964    | -0.3                                   | 7.2                   | 5.2                   | 7.2                   |
| Dual-fired .....       | 5,928  | 6,240  | 5,758  | -0.3                                   | 43.4                  | 45.7                  | 42.8                  |
| Hydroelectric .....    | 994    | 1,009  | 1,035  | 0.4                                    | 7.3                   | 7.4                   | 7.7                   |
| Total Nonutility ..... | 915    | 785    | 829    | -1.1                                   | 6.7                   | 5.8                   | 6.2                   |
| Industry .....         | 13,673 | 13,644 | 13,451 | -0.2                                   | 100.0                 | 100.0                 | 100.0                 |

**Figure 1. Utility Generating Capability by Plant Type, 1998**



**Figure 2. Utility Generation by Primary Energy Source, 1998**



**Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1988, 1993, and 1998**  
(Megawatthours)

| Fuel                       | 1988       | 1993       | 1998       | Annual Growth Rate 1988-1998 (Percent) | Percentage Share 1988 | Percentage Share 1993 | Percentage Share 1998 |
|----------------------------|------------|------------|------------|--|-----------------------|-----------------------|-----------------------|
| Total Utility . . . . .    | 44,035,382 | 48,810,720 | 51,454,036 | 1.7                                    | 92.4                  | 91.8                  | 91.6                  |
| Coal . . . . .             | 24,273,272 | 28,990,113 | 31,026,837 | 2.8                                    | 50.9                  | 54.5                  | 55.2                  |
| Petroleum . . . . .        | 29,148     | 14,027     | 7,541      | -13.9                                  | 0.1                   | *                     | *                     |
| Gas . . . . .              | 17,688,084 | 15,510,168 | 16,999,645 | -0.4                                   | 37.1                  | 29.2                  | 30.3                  |
| Hydroelectric . . . . .    | 2,044,878  | 4,296,412  | 3,420,013  | 5.9                                    | 4.3                   | 8.1                   | 6.1                   |
| Total Nonutility . . . . . | 3,633,559  | 4,340,129  | 4,736,567  | 3.0                                    | 7.6                   | 8.2                   | 8.4                   |
| Industry . . . . .         | 47,668,941 | 53,150,849 | 56,190,603 | 1.8                                    | 100.0                 | 100.0                 | 100.0                 |

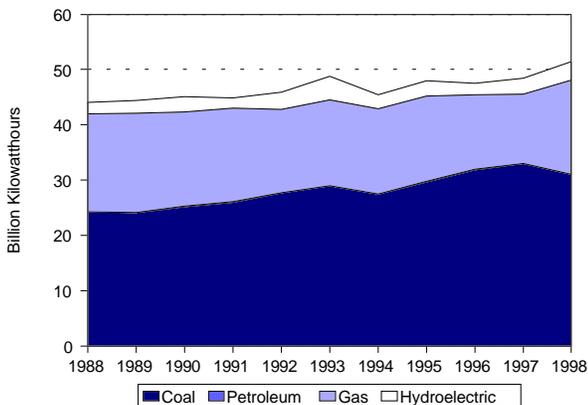
**Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988, 1993, and 1998**  
(Cents per Million Btu, 1998 Dollars)

| Fuel                | 1988  | 1993  | 1998  | Annual Growth Rate 1988-1998 (Percent) |
|---------------------|-------|-------|-------|--|
| Coal . . . . .      | 148.2 | 123.6 | 91.0  | -5.3                                   |
| Petroleum . . . . . | 268.2 | 349.8 | 292.2 | 0.9                                    |
| Gas . . . . .       | 281.3 | 310.7 | 241.2 | -1.7                                   |

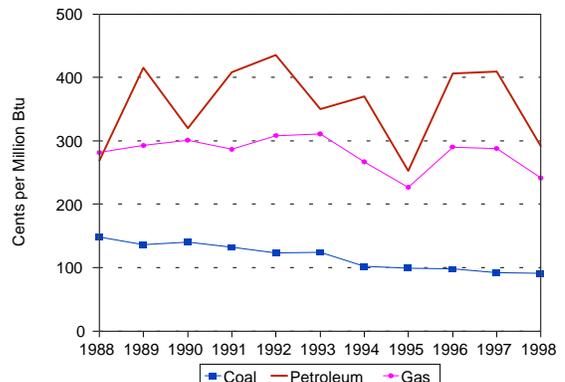
**Table 7. Electric Power Industry Emissions Estimates, 1988, 1993, and 1998**  
(Thousand Short Tons)

| Emission Type                          | 1988   | 1993   | 1998   | Annual Growth Rate 1988-1998 (Percent) |
|--|--------|--------|--------|--|
| Sulfur Dioxide . . . . .               | 94     | 104    | 89     | -0.6                                   |
| Nitrogen Oxides <sup>c</sup> . . . . . | 135    | 137    | 162    | 2.0                                    |
| Carbon Dioxide <sup>c</sup> . . . . .  | 36,040 | 41,068 | 49,603 | 3.6                                    |

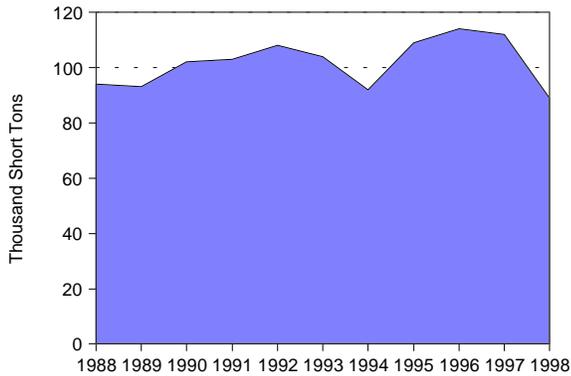
**Figure 3. Utility Generation of Electricity by Primary Energy Source, 1988-1998**



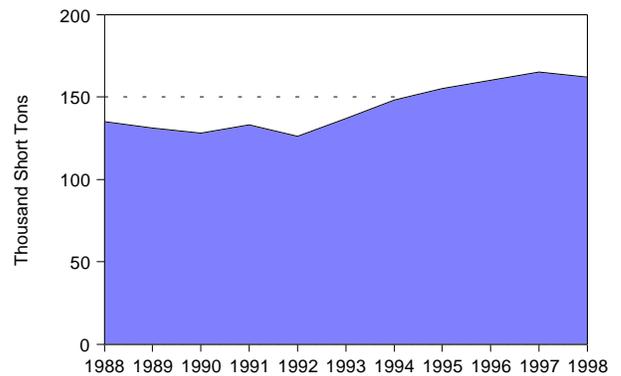
**Figure 4. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988-1998**  
(1998 Dollars)



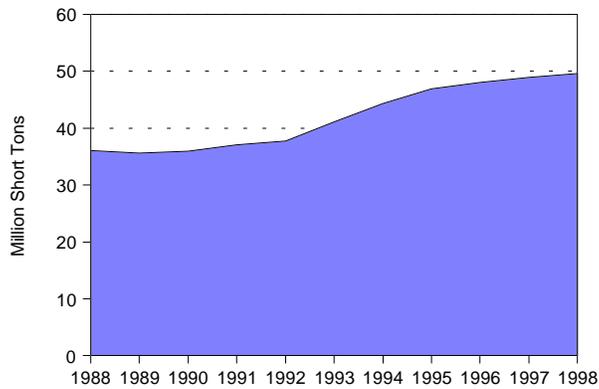
**Figure 5. Estimated Sulfur Dioxide Emissions, 1988-1998**



**Figure 6. Estimated Nitrogen Oxide Emissions, 1988-1998**



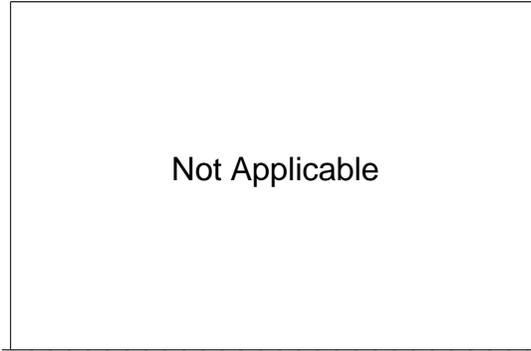
**Figure 7. Estimated Carbon Dioxide Emissions, 1988-1998**



**Table 8. Utility Retail Sales by Sector, 1988, 1993, and 1998**  
(Megawatthours)

| Sector             | 1988       | 1993       | 1998       | Annual Growth Rate 1988-1998 (Percent) | Percentage Share 1988 | Percentage Share 1993 | Percentage Share 1998 |
|--------------------|------------|------------|------------|--|-----------------------|-----------------------|-----------------------|
| Residential . . .  | 14,474,707 | 15,901,344 | 19,510,723 | 3.4                                    | 38.8                  | 39.2                  | 40.7                  |
| Commercial . .     | 10,100,471 | 10,823,963 | 12,458,949 | 2.4                                    | 27.1                  | 26.7                  | 26.0                  |
| Industrial . . . . | 10,719,168 | 11,698,989 | 13,174,693 | 2.3                                    | 28.7                  | 28.9                  | 27.5                  |
| Other . . . . .    | 2,031,625  | 2,107,031  | 2,752,210  | 3.4                                    | 5.4                   | 5.2                   | 5.8                   |
| Total . . . . .    | 37,325,974 | 40,531,327 | 47,896,575 | 2.8                                    | 100.0                 | 100.0                 | 100.0                 |

**Figure 8. Nuclear Power Capacity Factor Comparison, 1988-1998**



**Table 9. Utility Retail Sales Statistics, 1988, 1993, and 1998**

| Item   | Investor-Owned | Public    | Federal | Cooperative | Total      |
|--|----------------|-----------|---------|-------------|------------|
|  | 1988           |           |         |             |            |
| Number of Utilities  | 4              | 64        | --      | 32          | 100        |
| Number of Retail Customers                                       | 1,039,136      | 175,187   | --      | 344,824     | 1,559,147  |
| Retail Sales (MWh)   | 28,294,618     | 3,793,830 | --      | 5,237,526   | 37,325,974 |
| Percentage of Retail Sales                                       | 75.8           | 10.2      | --      | 14.0        | 100.0      |
| Revenue from Retail Sales<br>(million 1998 dollars) <sup>d</sup> | 1,859          | 272       | --      | 475         | 2,606      |
| Percentage of Revenue  | 71.3           | 10.4      | --      | 18.2        | 100.0      |
|  | 1993           |           |         |             |            |
| Number of Utilities  | 4              | 63        | --      | 31          | 98         |
| Number of Retail Customers                                       | 1,078,041      | 167,559   | --      | 363,528     | 1,609,128  |
| Retail Sales (MWh)   | 31,149,833     | 3,699,537 | --      | 5,681,957   | 40,531,327 |
| Percentage of Retail Sales                                       | 76.9           | 9.1       | --      | 14.0        | 100.0      |
| Revenue from Retail Sales<br>(million 1998 dollars) <sup>d</sup> | 1,963          | 236       | --      | 461         | 2,659      |
| Percentage of Revenue  | 73.8           | 8.9       | --      | 17.3        | 100.0      |
|  | 1998           |           |         |             |            |
| Number of Utilities  | 4              | 62        | --      | 30          | 96         |
| Number of Retail Customers                                       | 1,134,688      | 177,412   | --      | 397,138     | 1,709,238  |
| Retail Sales (MWh)   | 36,295,835     | 4,651,272 | --      | 6,949,468   | 47,896,575 |
| Percentage of Retail Sales                                       | 75.8           | 9.7       | --      | 14.5        | 100.0      |
| Revenue from Retail Sales<br>(million 1998 dollars) <sup>d</sup> | 1,874          | 264       | --      | 464         | 2,602      |
| Percentage of Revenue  | 72.0           | 10.1      | --      | 17.8        | 100.0      |